

The Nineteenth-Century Presidency and Partisan Press

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Abstract

Studies of the institutional development of the presidency and popular leadership by presidents over time lead us to contrary expectations as to how a nineteenth-century president would react to a major political scandal. Scholarship on newspapers of the late 1800s is also unclear on how a quasipartisan media, with some outlets moving toward independence, would cover a White House scandal. I find that a close analysis of the case of President Ulysses S. Grant and the Whiskey Ring scandal forces us to reconsider what we assume to be firmly modern developments in both presidential studies and media history. Though a supposedly premodern president, Grant still mounted a concerted effort to mitigate the damage of the scandal. Further, although the president could get his version of events across in prominent newspapers, Republican newspaper coverage was hardly reliable. Newspapers also connected politicians' character and psychology to mistakes made in office and made presidential strategies to shape public perception clear to their audiences. Emphases on political gamesmanship considered hallmarks of the modern media environment.

Keywords: nineteenth-century president, prominent newspapers, Republican newspaper

Introduction

By mid-1918 the combined forces of the internal and external counter-revolution unleashed a civil war. A disaster for the peoples of Russia was that the civil war has put on opposite sides of the front line carriers socialist ideas: the Bolsheviks, on the one hand, the Mensheviks and SRs on the other. The civil war has made certain changes in the structure of the Soviet Russian journalism. Bourgeois edition, which completely closed the newspapers and magazines of the Right SRs, completely sided with the counter-revolution and went into the hostile camp. November 6, 1918 was published in daily newspaper Economic Life (Supreme Council of National Economy Body and economic commissariats). Sections of this publication at the Presidium of the Supreme Economic Council, Official Section, food, fuel, transportation, finance, and others allow you to adequately present the objectives and tasks of the newspaper. Economic life was to become an important tool in the formulation and implementation of economic policy of the RCP (B) and the Soviet state, a new type of publication. Lenin, on whose initiative the newspaper was created, wanted to see her body, regularly publishes articles on the economy, giving a scientific analysis of statistical material, contributes to the improvement of all sectors of the economy. The newspaper did not justify his hopes. She published many different materials, but it was a case of incomplete nesistematischen,

Among the central publications that emerged during the civil war, it is

necessary to call the newspaper Life nationalities (organ of the People's Commissariat for Nationalities). Its main objective coverage of events of Soviet power on the national question. The network of publications in national languages has grown steadily.

In the years 1918-1920. continued the process of further building the Soviet press system. Develop local and national press, there were new regional, provincial, district newspaper. Periodicals were established in all major cities as the establishment of Soviet power in them.

In the overall system of the Party and the Soviet press during the Civil War took place certain military papers, among which the leading role was played by a massive Red Army seal. By the end of 1918, mainly to determine the type and nature of the military press: front, army (navy) newspaper. By the beginning of 1919 in all the armies of the existing issued army newspaper. By the end of this year, the entire Soviet military press in general had about 90 newspapers.

During the civil war in many parts of Ukraine, Belarus, Siberia, the Far East was active underground and partisan press. Propaganda impact on the rear of the enemy troops and carried out a special group of international propaganda. She managed to publish and distribute on several fronts about 16 million. Copies. leaflets in foreign languages.

The system of Soviet journalism GR period. war and foreign military intervention in the press played an important role foreign internationalists. On the fronts of the Red Army fought

representatives of many nations of Western Europe. In November 1918 there was a newspaper Commune (the central organ of the Federation of foreign groups, RCP (B)), it was published in Petrograd in English, French, German, Serbo-Croatian, Italian, Finnish, Russian.

In the difficult wartime conditions the Soviet press continued to develop. If in the middle of 1918, the country came out 884 papers, in December 1920 was 1080. Noticeable growth of the local and national press. As compared to 1918 by the end of 1920, it was published three times the national, provincial, regional, district and city newspapers.

Approval of the country's one-party rule of journalism is inextricably linked with the process of the formation of a system of means of information in Soviet Russia. So, not only enriched the structure of the newspaper periodicals, creation of new magazines of various types. In 1919, there are magazines Bulletin of agitation and propaganda, Satellite agitator, Communist, Communist Young; military journals political worker, Red Army soldier.

It receives significant development and book publishing. The activity of publishers Surf, Wave, Life and knowledge. In the summer of 1918 to create a single publishing Communist, and then established a single central joint Soviet State Publishing House (GIZ). State Publishing House began producing a popular, scientific and popular scientific literature, grouping it in the series Red Book, Science for All, The rudiments of knowledge, science library. In 1918, Narkompros using

AM Gorky was able to start production of works of Russian classics in popular series Popular Library, to create a publishing house World Literature. First steps in the publication of children's books. The need to integrate and systematize all produced in the country of printed materials required to concentrate this work in one center.

The task of Soviet journalism that time was a struggle with internal and external counterrevolution. The slogan of the Socialist Fatherland is in danger! constantly sounded by printing pages. Thus, truth is urged workers and farmers to create a revolutionary army. Needed printing performance, which could change the psychology of the peasant masses, to convince her that the restoration of the old order would deprive them of the land, that the right to it must be protected with a weapon in his hands. Day to day coverage of the Bolshevik newspapers situation at the front, fighting the Red Army.

Soviet press reports on the situation in the country and at the front withstood another stream of information the White Guard press. Military and public newspapers white movement took to the Civil War. It was the voice of the Siberian Army, the Bulletin of the Don Army, Front Voice. A special place is occupied by the newspapers of general political directions. First of all, it is the newspaper Great Russia. White movement and also has a network of local and regional press. The main topics of the White Guard press had several directions: the struggle for a united, great, indivisible Russia; defense of the faith; establishing the administrative and legal order; the establishment of a military dictatorship.

The leading idea of all speeches struggle against Bolshevism through. By the beginning of 1920 the White Guard and Army troops invaders, suffering one defeat after another, leaving Russia. Along with them went into exile a large part of the members of the socialist parties of the Socialist-Revolutionaries, Mensheviks, Anarchists. In 1919 they were closed the last three newspaper.

In Soviet Russia, firmly established a one-party system, and along with it, and the one-party journalism. During the Civil War, a significant development has been rabselkorovskoe movement. For the Bolshevik party bodies and the Council of the Civil War period it is becoming more typical mix of lighting the front of life showing labor heroism of the masses in the rear. VIII Congress of the RCP (b) organically party and wrote in Soviet press structure administrative command control.

There has been much history written about the American ironmaking and smelting industries; this history usually at least mentions charcoal as the fuel for the early industrial period, occasionally attempts to explain why charcoal was the preferred fuel, and describes the technology used to produce it (Bining, 1973; Gordon, 1996; Hillstrom & Hillstrom, 2005; Swank, 1892; Walker, 2000). Even local histories for small iron furnaces typically discuss the use of charcoal as fuel (Bennett, 2011; Jacob, 1999; Norris, 1964). The history of the science of charcoal production and the basic characteristics of charcoal are a necessary part of any discussion of the ironmaking and smelting industries and

are sparsely covered in the literature. An earlier article in this journal examined historical charcoal production characteristics, but did not delve into the basics of charcoal itself (Straka, 2014). These basics are provided here as necessary insights for any historical review of these industries.

In the United States charcoal fuel for smelting centered on iron in the East and precious metals in the West. Ironmaking technology requires three ingredients: iron ore, a flux (limestone), and an efficient fuel. Until about 1840 the sole fuel for iron production in the United States was charcoal (Swank, 1892). Only after the Civil War did coal and coke gain significance as a fuel source. Even then, charcoal production increased in real terms until after World War I. The last charcoal iron blast furnace operated until 1945 (Shallenberg, 1975). Charcoal fueled the western smelters until late in the nineteenth century, as even when coal and coke became available, railroads slowly gained access to remote smelters (Fell, 2009; Page, Page, Straka, & Thomas, 2015; Young & Budy, 1979). It is this temporal aspect that makes charcoal so interesting; it is tied to the formative periods of industrial development in the United States and is vital to economic expansion of the nation.

This technical background will also be useful in environmental history research as there is an environmental aspect to charcoal production. It has been long-recognized as a source of deforestation and forest degradation, especially in tropical forests (Chidumayo & Gumbo, 2013; Hosier, 1993). Charcoal is the primary urban

fuel in parts of the world, especially Africa, and plays a crucial role in the energy cycle of developing economies. It may be more damaging to the environment than fuelwood and biomass fuels (mainly due to inefficient production techniques) and is often not competitive with other fuels in terms of price and energy efficiency (Kammen & Lew, 2005). Charcoal production involves carbon, so there are implications for climate change (Sonter, Barrett, Moran, & Soares-Filho, 2015).

Charcoal was more than the black fuel that went into the furnace. It was also the largest expense of a charcoal iron furnace and poor management of the fuel production phase of the operation could doom a furnace. In 1880 the charcoal iron industry formed a new association with a strong focus on their fuel; in describing themselves they noted:

The manager of a charcoal iron works must, ordinarily, be boss wood chopper and collier, mining and mechanical engineer, blast furnace manager, forge superintendent, ... In fact, be Jack-of-all-trades. He cannot follow the example of the manager who uses anthracite or coke for fuel, and order his supply by letter or through the ubiquitous commercial traveler. He must prepare his own fuel, and anticipate the want of his plant a year in advance. Wood cutting jobs are to be laid out, and watched to secure a cord of one hundred and twenty-eight cubic feet without too much preponderance of interstitial space, and precautions taken to prevent the labor of months being swept away by the bane of charcoal works—mountain fires. Then

when the ground thaws, and colliers take the place of wood choppers, vigilance is required to secure a proper yield and good supply of product. Transportation for a bulky friable fuel must be provided, and care bestowed on stocking the fuel for the months when none is made. The various methods of making charcoal will bear thorough examination, and practical results compared (United States Association of Charcoal Iron Workers, 1880).

The fundamentals of charcoal characteristics and production are laid out below in a nontechnical way to be useful to historians. They will allow for a better understanding of the basics of charcoal and a better interpretation of technical descriptions of its use.

2. Charcoal Characteristics

Charcoal is the solid residue that remains when wood is subjected to carbonization or pyrolysis. Wood is about 50% carbon, 44% oxygen, and 6% hydrogen. When wood is burned in an air-free environment, carbonization occurs and, after the water is driven out of the wood, the volatile matter is then driven out of the wood as gas (Emrich, 1985). What remains is charcoal that is roughly 65% - 70% fixed carbon, with 30% volatile matter, and less than 5% ash. This is a fuel with a higher heating value than wood (Baker, 1983).

The volatile matter consists of organic compounds that vaporize as the charcoal is produced, leaving oils and tarry residue. Higher carbonization temperature produces less volatile matter, making charcoal that burns more cleanly, but is more friable or prone to crumbling (FAO Forestry Department, 1987).

What constitutes “good” charcoal? “Charcoal of good quality retains the grain of the wood; it is jet black in color with a shining luster in a fresh cross-section. It is sonorous with a metallic ring [when it strikes a hard object], and does not crush, nor does it soil the fingers. It floats in water, is a bad conductor of heat and electricity, and burns without flame” (Chaturvedi, 1943). Charcoal’s form and structure is almost



identical to wood (Toole, Lane, Arbogast, Smith, Peter, Locke, Beglinger, & Erickson, 1961). Note that the form and structure of the wood used to produce the charcoal in Figure 1.

Figure 1. Charcoal from a charcoal pit, illustrating wood form and structure.

There are key characteristics that affect charcoal’s use in ironmaking. First, it burns hotter than wood at temperatures between 1450°C to 1760°C (Dieffenbach, 2003). Charcoal has a heat value of up to twice that of air-dried wood. Good quality charcoal concentrates heat value, burning cleanly and faster than mineral coal (Gordon, 1996). Second, fresh charcoal has very low moisture con-

tent, but rapidly absorbs moisture from the air. Poorly produced charcoal that retains excessive volatile matter will attract moisture and tend to shatter and produce fines (small pieces), reducing fuel value (FAO Forestry Department, 1987).

Third, properly prepared charcoal will weigh about one-third as much as wood and will have roughly one-half the volume of the original wood (Toole, Lane, Arbogast, Smith, Peter, Locke, Beglinger, & Erickson, 1961), so it can be transported more easily and cheaply than wood (Birkinbine, 1879). Fourth, friability can be a problem; normal handling and transport can cause crumbling and reduce 5% - 10% of the charcoal to fines (Toole, Lane, Arbogast, Smith, Peter, Locke, Beglinger, & Erickson, 1961).

Fifth, compression strength of charcoal can limit the size of a furnace. The iron furnace contains iron ore, limestone, and fuel. Coal and coke can withstand the “burden” or weight better, increasing furnace productivity (FAO Forestry Department, 1987). Sixth, charcoal is the most expensive of the raw materials that go into the furnace (Gordon, 1996).

3. The Carbonization Process

Charcoal is produced in a charcoal pit or kiln. A charcoal pit is a carefully stacked wood pile burned on level ground (“pit” is a misnomer; all burning takes place above ground). A kiln is an “oven” made of stone or brick and is a permanent structure. In a charcoal pit the wood is covered with a layer of soil and is “burned” slowly with minimal air reaching the wood. In a kiln the

structure itself limits the air. The process takes a week or longer.

Carbonization begins with a small amount of wood actually burning to ash in order to first dry the wood. At 270°C (518°F) the process becomes exothermic, or self-sustaining, and continues until only charcoal is remaining. The temperature of the charcoal pit will reach a maximum of 400°C (752°F). Charcoal is sometimes referred to as pure carbon, but this is not the case. Only in an enclosed kiln with outside heat will the fixed carbon increase above the 70% level. A temperature of 700°C (1292°F) will result in a fixed carbon content of 92% (FAO Forestry Department, 1987).

There are numerous factors that influence the rate of burning, affecting both charcoal quality and quantity produced (Brown, 1919). First, is the type of wood. Most species of wood can be used to make charcoal. Hard hardwood trees, like oak and hickory, are best, but softwoods, like pine, and soft hardwoods, like cottonwood and birch, make usable charcoal. Bark makes poor charcoal, so its use is minimized (Toole, Lane, Arbogast, Smith, Peter, Locke, Beglinger, & Erickson, 1961). Second, size of wood pieces is a big factor, including length, thickness, regularity, and straightness of individual billets (sticks of wood). Large wood pieces carbonize more slowly than smaller ones (Svedelius, 1875). Third, wood condition is important. Decay, knots, and defects do not make good charcoal (FAO Forestry Department, 1985).

Fourth, moisture content of the wood placed in the charcoal pit impacts carbonization. Excess moisture must be

evaporated or burned out of the wood before carbonization begins. So, ideally the wood used in the charcoal pit should be properly air-dried (Antal & Grønli, 2003). Fifth, the condition of the ground where the pit is constructed is important. The ground needs to be perfectly dry, solid, level, and free from air drafts (Kemper, 1941). Sixth, the time of the year is also important. Charcoal is usually made in summer and early fall, after the wood cut from the previous winter has dried (Kemper, 1941). Seventh, weather conditions and temperature affect the rate of the burn. The pit needs more air during rainy, humid weather and less air during dry or windy days (Straka, 2014).

4. Measuring Charcoal

Historical accounts of ironmaking and smelting furnaces often discuss the charcoal fuel and, of course, measurements come into play. This can be complicated, because during the early history of the industries there was disagreement over exactly how charcoal should be measured (Birkinbine, 1880a). Charcoal was measured by the bushel (35.24 liters) or ton (0.91 metric ton), and sometimes even by the cord (3625 liters). The bushel was most common, but its definition varied from 35 to 47 liters (2150 to 2844 cubic inches) in volume, or from 5 to 10.2 kilograms (11 to 22.5 pounds) in weight. A cord is a measure of wood, not charcoal. However, the uncertainty of charcoal measurement caused some ironmasters to measure charcoal consumption in terms of cords of wood used to produce the fuel. One expert described the measurement of charcoal as “seemingly impossible of solution” (Birkinbine, 1880a).

An early charcoal burning text gave these generalizations: deciduous trees produce heavier wood than softwoods; younger trees produce lighter wood than older trees; trees felled in winter produce stronger charcoal than those felled in summer; and well-seasoned wood produces better charcoal than green wood (Svedelius, 1875). So the weight of charcoal may be a more difficult measure than that of volume, plus the weight of a bushel of charcoal still begs the question of bushel size in volume (Birkinbine, 1880b).

Purchasing charcoal by volume measure offered four advantages. First, brands (partly charred wood) and dirt were often included in the charcoal load and weigh more than charcoal for the same volume, so brands produced less impact on costs when measured by volume. Second, no water (due to high moisture content) was paid for. Third, transportation had a greater impact on reducing charcoal volume than weight. Fourth, there was no need for "dock-age" for extra weight for things like mud on the wagon or wheels (Birkinbine, 1980b).

Purchasing charcoal by weight offered three advantages. First, lighter, softer, and bulkier charcoal was purchased at a lower cost than hard and compact charcoal. Second, weighed charcoal produced regularity in the blast furnace and lower fuel consumption per ton of product. Third, dirt or debris in the load is better accounted for by weight. The combination of the two methods might be preferred: purchase charcoal by volume (this does away for dockage for dirt, fines, dust, brands, water, or other defects) and

then charging the furnace by weight, providing a uniformity of moisture content, carbon by weight, and improved furnace performance (Birkinbine, 1880b).

In 1882 the United States Association of Charcoal Iron Workers adopted standards for publishing in their journal. A bushel was to contain 40.1 liters (2478 cubic inches) and weigh 9.1 kilograms (20 pounds). The Association made an effort to secure legislation in the various states to adopt their standards and they were largely successful in the charcoal - producing states

(Birkinbine, 1882). Gradually state legislatures adopted the Association standards (Birkinbine, 1885).

5. Transporting Charcoal

Charcoal was transported in charcoal wagons and later in railroad cars. Transportation affected charcoal quality. It was often the most significant component of charcoal making. In some situations transport of charcoal to the furnace exceeded the cost of purchasing, cutting, and hauling the wood to the charcoal pit, plus the charcoal burning itself. Some characteristics of charcoal can make it more difficult to transport; it is friable, cumbrous, costly to handle, easily absorbs moisture (adding to its weight), and has a propensity to reignite (Birkinbine, 1881).

Even after transport the charcoal was subject to degradation. Charcoal at the furnace was stored in a charcoal shed. At the shed the charcoal wagon draw boards were pulled and the charcoal dropped to the ground, allowing the wagon wheels to crush a portion of it. If the charcoal was to be immediately used, it was hauled to the furnace in wheelbarrows, or if it was to be stored

in the charcoal shed, it would be forked and raked into charcoal baskets, and this tended to break up the charcoal. Wood supply problems and transportation problems could interact to require charcoal to be supplied from great distances (Birkinbine, 1881).

In 1881 a Pennsylvania furnace found it necessary to transport charcoal from its own kilns 531 kilometers (330 miles) by railroad. Rail transport resulted in a 16% decrease in volume, almost entirely due to the packing of charcoal. In contrast, when charcoal was transported by wagon directly from the pits (located only four to seven miles away) the decrease in volume was 26% (Potts, 1882). Transportation played a crucial role in defining how cost-effective charcoal could be as a fuel and poor handling of it in transit to the furnace could easily damage a furnace's profitability.

6. Conclusion

Charcoal was a fundamental aspect of the ironmaking and smelting industries. It provided the fuel that powered the technology involved. Historical descriptions of that industrial process commonly give minimal attention to that fuel, especially the basic characteristics of charcoal, the science of carbonization, and the measurement of the product. Those subjects are discussed above and provide detail that historians will find useful in addressing the technology used to produce the fuel for those industries.

Starting in about 1840 the American ironmaking industry started to shift from charcoal to coal or coke. This

does not mean the use of charcoal as an industry fuel quickly declined. By 1850 half of iron production was from charcoal furnaces, but this statistic is deceptive. Charcoal iron production actually increased until 1890 and remained significant until after World War II. Even though coal furnace production was much greater than charcoal furnace production, overall production increased so much that charcoal iron production increased or remained strong for all of the nineteenth century. The decline in charcoal's proportionate share of iron production was due to changing technology (larger blast furnaces with increased heights and charcoal could not support the greater overburden) and price (new production centers required huge quantities of fuel that local forests could not support, resulting in greater fuel transportation costs). Charcoal iron furnaces contributed to American iron production well into the twentieth century (Baker, 1985).

Smelters did not only process iron ore. Charcoal remained a fuel of choice for many western smelters that processed precious metal ores. Many of those smelters were far removed from the railroads and coal supplies. So charcoal fueled many gold, silver, and lead furnaces during the same time period. The supply of charcoal as a fuel and the impact on American forests is fascinating history. This background on charcoal provides technical information that must be part of any discussion on the industries that processed America's ores.

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